

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query                               | DBs                                      | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--|------------------|---------|---------------------|
| S1    | 1    | "10561840"                                 | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:23 |
| S2    | 43   | ((YUKIO) near2<br>(MIYAIRI)).INV.          | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:23 |
| S3    | 19   | ((YASUMASA) near2<br>(FUJIOKA)).INV.       | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:23 |
| S4    | 48   | ((MASAAKI) near2<br>(MASUDA)).INV.         | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:24 |
| S5    | 19   | ((TATSUHIKO) near2<br>(HATANO)).INV.       | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:24 |
| S6    | 65   | ((TAKESHI) near2<br>(SAKUMA)).INV.         | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:24 |
| S7    | 4    | ((YUUI CHIRO) near2<br>(IMANISHI)).INV.    | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:24 |
| S8    | 15   | ((KEIZO) near2<br>(IWAMA)).INV.            | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2009/04/21<br>11:24 |
| S9    | 0    | "20010193441"                              | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>11:55 |
| S10   | 2    | "2001193441"                               | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>11:55 |
| S11   | 552  | denso.as. and plasma                       | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>14:30 |
| S12   | 0    | denso.as. and "plasma<br>reactor"          | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>14:30 |
| S13   | 2    | denso.as. and "plasma<br>electrode"        | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>14:30 |
| S14   | 552  | denso.as. and<br>"plasma"                  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>14:30 |
| S15   | 350  | denso.as. and<br>"plasma" and<br>electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/04/21<br>14:30 |

|     |      |  |                                    |    |     |                  |
|-----|------|--|------------------------------------|----|-----|------------------|
| S16 | 100  | denso.as. and "plasma" and electrode and (intensity or strength)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/04/21 14:31 |
| S17 | 1447 | "422".clas. and plasma and electrode and (intensity or strength)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/04/21 14:34 |
| S18 | 548  | "422".clas. and plasma and electrode and (intensity or strength) same (change or different or differing or alter or altering or various)                             | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/04/21 14:35 |
| S19 | 548  | "422".clas. and plasma and electrode and (intensity or strength) same (change or different or differing or alter or altering or various)                             | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:35 |
| S20 | 312  | "422".clas. and plasma and electrode and (intensity or strength) same (change or different or differing or alter or altering or various) and (dielectric or ceramic) | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:36 |
| S21 | 839  | "422".clas. and plasma and electrode and (dielectric or ceramic) and plate   | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:49 |
| S22 | 45   | 422/186.ccls. and plasma and electrode and (dielectric or ceramic) and plate   | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:49 |
| S23 | 90   | 422/186.ccls. and plasma and electrode and (dielectric or ceramic)   | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:50 |
| S24 | 348  | 422/186.04.ccls. and plasma and electrode and (dielectric or ceramic)  | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 14:58 |
| S25 | 7403 | intensity with plasma  | US-PGPUB; USPAT                    | OR | OFF | 2009/04/21 15:25 |

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|-----|-------|---|-------------------|----|-----|------------------|
| S26 | 3066  | (intensity with plasma) and (electrode or conduct\$3) and (dielectric or ceramic)   | US-PGPUB; USPAT   | OR | OFF | 2009/04/21 15:26 |
| S27 | 33    | ((different or differing or difference) near4 (intensity with plasma)) and (electrode or conduct \$3) and (dielectric or ceramic)               | US-PGPUB; USPAT   | OR | OFF | 2009/04/21 15:27 |
| S28 | 41    | ((different or differing or difference) near4 ((intensity or strength) with plasma)) and (electrode or conduct \$3) and (dielectric or ceramic) | US-PGPUB; USPAT   | OR | OFF | 2009/04/21 15:42 |
| S29 | 17    | (different or differing or difference) near4 (intensity with plasma)  | EPO; JPO; DERWENT | OR | OFF | 2009/04/21 15:42 |
| S30 | 1     | "10561841"  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 09:17 |
| S31 | 1     | "10562597"  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 09:17 |
| S32 | 1     | "10562467"  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 09:17 |
| S33 | 1027  | 422/186.04.ccls.  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 09:33 |
| S34 | 560   | 422/186.04.ccls. and plasma   | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 09:34 |
| S35 | 281   | 422/186.ccls. and plasma  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 10:16 |
| S36 | 158   | 422/186.ccls. and plasma and electrode  | US-PGPUB; USPAT   | OR | OFF | 2009/04/24 10:16 |
| S37 | 76156 | (intensity or strength) and plasma and electrode  | US-PGPUB; USPAT   | OR | ON  | 2009/10/15 13:28 |
| S38 | 5     | "7270698"   | US-PGPUB; USPAT   | OR | ON  | 2009/10/15 13:31 |
| S39 | 22419 | (intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable) and plasma and electrode                             | US-PGPUB; USPAT   | OR | ON  | 2009/10/15 13:33 |

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| S40 | 22419 | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:33 |
| S41 | 10687 | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005"  | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:33 |
| S42 | 2072  | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and ("204".clas. or "205". clas. or "422".clas. or "219".clas. or "118". clas. or "156".clas.)             | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:34 |
| S43 | 418   | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and ("204".clas. or "205". clas. or "422".clas. or "219".clas. or "118". clas. or "156".clas.) and exhaust | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:35 |
| S44 | 1     | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and ("204".clas. or "205". clas. or "422".clas. or "219".clas. or "118". clas. or "156".clas.) and exhaust | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:50 |

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|-----|------|---|-------------------|----|----|------------------|
| S45 | 7    | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and ("204".clas. or "205". clas. or "422".clas. or "219".clas. or "118". clas. or "156".clas.) | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:50 |
| S46 | 1316 | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and exhaust  | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:50 |
| S47 | 1224 | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and exhaust and (plate or layer\$2 or prismatic)   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:51 |
| S48 | 1    | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and exhaust and (plate or layer\$2 or prismatic)   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:51 |
| S49 | 6    | ((intensity or strength) same (different or alter \$3 or differ\$3 or vary \$3 or variable)) and plasma and electrode and @py<"2005" and exhaust  | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:51 |
| S50 | 88   | ((YUKIO) near2 (MIYAIRI)).INV.  | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:54 |
| S51 | 43   | ((YASUMASA) near2 (FUJIOKA)).INV.   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:54 |
| S52 | 199  | ((MASAAKI) near2 (MASUDA)).INV.   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:54 |
| S53 | 43   | ((TATSUHIKO) near2 (HATANO)).INV.   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:54 |
| S54 | 396  | ((TAKESHI) near2 (SAKUMA)).INV.   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:54 |

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|-----|------|---|-------------------|----|----|------------------|
| S55 | 7    | ((YUICHIRO) near2 (IMANISHI)).INV.  | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:55 |
| S56 | 23   | ((KEIZO) near2 (IWAMA)).INV.  | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:55 |
| S57 | 22   | ((KENJI) near2 (DOSAKA)).INV.   | EPO; JPO; DERWENT | OR | ON | 2009/10/15 13:55 |
| S58 | 35   | ((KENJI) near2 (DOSAKA)).INV.   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 13:56 |
| S59 | 538  | (S50 or S51 or S52 or S53 or S54 or S55 or S56 or S57) and @py<"2006"                           | EPO; JPO; DERWENT | OR | ON | 2009/10/15 14:55 |
| S60 | 485  | (S50 or S51 or S52 or S53 or S54 or S55 or S56 or S57) and @py<"2005"                           | EPO; JPO; DERWENT | OR | ON | 2009/10/15 14:55 |
| S61 | 16   | (S50 or S51 or S52 or S53 or S54 or S55 or S56 or S57) and @py<"2005" and plasma                | EPO; JPO; DERWENT | OR | ON | 2009/10/15 14:55 |
| S62 | 25   | (S50 or S51 or S52 or S53 or S54 or S55 or S56 or S57) and @py<"2005" and (plasma or electrode) | EPO; JPO; DERWENT | OR | ON | 2009/10/15 14:55 |
| S63 | 59   | (S50 or S51 or S52 or S53 or S54 or S55 or S56 or S57) and @py<"2007" and (plasma or electrode) | EPO; JPO; DERWENT | OR | ON | 2009/10/15 14:57 |
| S64 | 1395 | 204/164.ccls.   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:18 |
| S65 | 691  | 204/164.ccls. and plasma  | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:18 |
| S66 | 551  | 204/164.ccls. and plasma and @py<"2006"   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:18 |
| S67 | 0    | "a plurality of unit electrodes"  | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:42 |
| S68 | 0    | ("a plurality of unit electrodes").clm.   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:42 |
| S69 | 0    | ("plurality of unit electrodes").clm.   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:43 |
| S70 | 0    | "plurality of unit electrodes"  | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:43 |
| S71 | 105  | plurality near2 "unit electrodes"   | US-PGPUB; USPAT   | OR | ON | 2009/10/15 15:43 |

|     |    |                                   |                    |    |    |                     |
|-----|----|-----------------------------------|--------------------|----|----|---------------------|
| S72 | 53 | plurality near1 "unit electrodes" | US-PGPUB;<br>USPAT | OR | ON | 2009/10/15<br>15:43 |
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**EAST Search History (I nterference)**

| Ref # | Hits  | Search Query   | DBs                         | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|-----------------------------|------------------|---------|------------------|
| S73   | 12195 | (plasma and electrode).clm.  | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:35 |
| S74   | 6677  | (plasma and electrode and (plate or layer)).clm.   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:36 |
| S75   | 7806  | (plasma and electrode and (plate or layer or parallel)).clm.   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:36 |
| S76   | 367   | (plasma and electrode and (plate or layer or parallel) and (intensity or intensities or strength)).clm.  | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:37 |
| S77   | 227   | (plasma with electrode and (plate or layer or parallel) and (intensity or intensities or strength)).clm.   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:37 |
| S78   | 53    | (plasma with electrode and (plate or layer or parallel) and (intensity or intensities or strength)).clm. and ("204".clas. or "205".clas. or "422".clas.) | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:38 |
| S79   | 0     | ("a plurality of unit electrodes")   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:40 |
| S80   | 0     | ("a plurality of unit electrodes")   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2009/10/15 15:41 |
| S81   | 0     | "a plurality of unit electrodes"   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:42 |
| S82   | 0     | "a plurality of unit electrodes"   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2009/10/15 15:42 |
| S83   | 18    | (plurality near1 "unit electrodes").clm.   | USPAT;<br>UPAD              | OR               | ON      | 2009/10/15 15:44 |

**10/ 15/ 2009 3:46:15 PM**

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